

Date: Wed, 23 Mar 94 04:30:31 PST
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V94 #76
To: Ham-Ant

Ham-Ant Digest Wed, 23 Mar 94 Volume 94 : Issue 76

Today's Topics:

5/8 over 1/4 design info needed
Design of Cubical Quad (2 msgs)
Information about plywood dish...
 Need advice for HF antenna
 Need Dayton room
 RG214/U (2 msgs)
 Salt Lake City Dipoles

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>

Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 22 Mar 1994 19:49:31 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!howland.reston.ans.net!news.cac.psu.edu!
news.pop.psu.edu!ra!usenet@network.ucsd.edu
Subject: 5/8 over 1/4 design info needed
To: ham-ant@ucsd.edu

In article <2mibrk\$jfr@crl.crl.com> frbspd@crl.com (Stephen Dunifer)
writes:

>
> Having read several references to 5/8 over a 1/4 vertical
> antenna, I have not been able to find any fully detailed construction
> plans in the usual sources. Can anyone provide the details or point
> the way to an appropriate source ? [the rest deleted]
>

Check out the ARRL Antenna Book. My 1984 edition has complete plans

for a 5/8 wave antenna. It gives specific dimensions for the base loading coil, and vertical element. A ground plane is not required, but I've found that my magnetic mount 5/8 wave mobile antenna seems to work best (best reception, best VSWR) when sitting on some metallic structure. It's currently sitting on a round cooking sheet in the attic, and it performs quite well. The cooking sheet's diameter is much less than a 1/2 wavelength, thus indicating that any ground plane structure you cook up for your homebrew version need not be very wide to be effective.

--

David Drumheller phone: (202) 767-3524
Acoustics Division, Code 7140 fax: (202) 404-7732
Naval Research Laboratory
Washington, DC 20375-5350 e-mail: drumhell@claudette.nrl.navy.mil

Date: Tue, 22 Mar 94 21:01:46 -0500
From: yale.edu!noc.near.net!news.delphi.com!usenet@yale.arpa
Subject: Design of Cubical Quad
To: ham-ant@ucsd.edu

Just logged on 4 the first time. Have built several quads from book. Many things not right in design. Antenna design my favorite. I can give you details on how to make it right first time. Sorry about typing. CW is worse! If you have more interest, let me know. Glad to share my experience and know-how. I'll check daily for messages. Quad's are best. Mark Welch WA6RZI
MWWELCH

Date: Wed, 23 Mar 1994 04:11:35 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!newshub.nosc.mil!news!news@network.ucsd.edu
Subject: Design of Cubical Quad
To: ham-ant@ucsd.edu

Yes, I'd like some tips on building a 6m Quad. One for horizontal polarization and one for FM, if both can't be fit into one design.

50.13MHz for the Horizontal antenna
and
52.53MHz for the Vertical polarization 6m Quad.

What is your advice and what is the book that you used?

Materials, etc. I've seen them done with PVC and am not impressed. Post the measurements and tips please; others would be interested I'm

sure.

Which books are accurate, and which are not? Why?

Which designs in the antenna compendium are correct?

Roger Keating - KD6EFQ
keating@nosc.mil
Point Loma ARC

Date: Mon, 21 Mar 1994 22:22:16 GMT
From: haven.umd.edu!news.umbc.edu!europa.eng.gtefsd.com!howland.reston.ans.net!
darwin.sura.net!fconvx.ncifcrf.gov!mack@ames.arpa
Subject: Information about plywood dish...
To: ham-ant@ucsd.edu

In article <2mklqj\$fop@usenet.INS.CWRU.Edu> ek937@cleveland.Freenet.Edu (Demilson A. Quintao) writes:

>
>Hi Everybody!
>
>I heard some years ago about a article published in the Radio Electronics
>Magazine concerning a antenna made of plywood for receiving of centimetrics
>waves using the Fresnel's principle. I'm in Brasil and, here I din't find
>any information about that. Any information will be very usefull.
>

I don't know if this helps, but I made one once, just from the
formulae, out of a sheet of cardboard and circular strips of aluminium kitchen
foil glued onto it with household glue (I did it for a gain contest while
at a conference). It got about 7db at 10Ghz. I expect it would be sort
of portable. However on a moutaintop the breeze would make things difficult.

Joe Mack NA3T
mack@ncifcrf.gov

Date: Tue, 22 Mar 1994 11:44:09 GMT
From: ihnp4.ucsd.edu!usc!sol.ctr.columbia.edu!news.unomaha.edu!cwis.unomaha.edu!
wperry@network.ucsd.edu
Subject: Need advice for HF antenna
To: ham-ant@ucsd.edu

I would suggest homebrewing a G5RV antenna. It will cover the bands very nicely that are available to you with the help of your tuner. There are plenty of plans in the literature for putting one together and I think you will be very pleased with the performance. I put one together about a year and a half ago and found it to work great on the 80-10M bands without exception. My particular configuration for it consisted of erecting a mast on my roof with halyard at the top. That was the middle point of the antenna with legs of the antenna directed off into the corners of my lot. I live in an urban area and the regular G5RV just fit. If you're in a hurry or not into homebrewing, I believe Antennas West has a kit and an assembled model for a very reasonable cost.

There are a lot of hams out there who swear by the G5RV, me included. Hope whatever antenna design you decide on gets you on the air soon. Good luck.

Will Perry KB0IAR
wperry@cwis.unomaha.edu

Date: 22 Mar 1994 23:09:44 -0500
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!udel!
news.udel.edu!brahms.udel.edu!not-for-mail@network.ucsd.edu
Subject: Need Dayton room
To: ham-ant@ucsd.edu

Please forgive the cross posting if you will.

I need a room for two for Thursday, Friday and Saturday night at Dayton. We have one room at the Hampton House with the FRC, and want one more closeby if possible.

CU at contest forum and dinner, FRC suite, hamfest etc.

Tnx Bob

--
Bob Penneys, WN3K Frankford Radio Club Internet: penneys@pecan.cns.udel.edu
Work: Ham Radio Outlet (Delaware) (800) 644-4476; fax (302) 322-8808
Mail at home: 12 East Mill Station Drive Newark, DE 19711 USA

Date: Wed, 23 Mar 94 02:47:51 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!netcomsv!
skyld!jangus@network.ucsd.edu
Subject: RG214/U

To: ham-ant@ucsd.edu

In article <Cn2zBK.KqH@ra.nrl.navy.mil> drumhell@claudette.nrl.navy.mil writes:

>
> I just scrounged about 100 ft. of coaxial cable labeled as RG214/U. It
> appears to be 1/2 inch in diameter. Does anybody know it's characteristic
> impedance? Velocity factor, and dB attenuation per 100 ft. would be nice
> to know, too, as well as any other vital statistics.
>

If it is indeed RG-214, then it is double shielded silver plated teflon dielectric coax. 50 ohm stuff and quite high quality. Especially for with respect to keeping RF in and stray RF out.

If you find more, let me know.

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA		"You have a flair for adding
Internet: jangus@skyld.grendel.com		a fanciful dimension to any
US Mail: PO Box 4425 Carson, CA 90749		story."
Phone: 1 (310) 324-6080		Peking Noodle Co.

Date: 22 Mar 1994 19:37:20 -0700
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!usc!
yeshua.marcam.com!charnel!xmission!xmission!not-for-mail@network.ucsd.edu
Subject: RG214/U
To: ham-ant@ucsd.edu

David Drumheller (drumhell@claudette.nrl.navy.mil) wrote:

: I just scrounged about 100 ft. of coaxial cable labeled as RG214/U. It
: appears to be 1/2 inch in diameter. Does anybody know it's characteristic
: impedance? Velocity factor, and dB attenuation per 100 ft. would be nice
: to know, too, as well as any other vital statistics.

: -Dave

: --

: David Drumheller phone: (202) 767-3524
: Acoustics Division, Code 7140 fax: (202) 404-7732
: Naval Research Laboratory
: Washington, DC 20375-5350 e-mail: drumhell@claudette.nrl.navy.mil

RG-214 is double shielded and silver plated. Nice stuff but is enough bigger in diameter to require a bit of work to use standard fittings.

p.s. I like it very much when you don't have to pay list price.

Date: 23 Mar 1994 02:01:26 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!math.ohio-state.edu!cyber2.cyberstore.ca!nntp.cs.ubc.ca!
unixg.ubc.ca!studney@network.ucsd.edu
Subject: Salt Lake City Dipoles
To: ham-ant@ucsd.edu

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Donald Studney
C180 C-GZVN "Instrument flying is an unnatural act, probably
VE7FGX punishable by God" Gordon Baxter

End of Ham-Ant Digest V94 #76
